

APR 27 2006

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TO: Timothy D. Collins
FIRM: U.S. Patent and Trademark Office
FACSIMILE NO.: 571-273-8300
OUR REF.: HOH.001A
YOUR REF.: Application No. 10/772,990
FROM: Azadeh Agahi
OPERATOR: Reina Solorzano
DATE: April 27, 2006

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April 27, 2006

Timothy D. Collins
Commissioner For Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450Re: Application No. 10/772,990
Title: Helicopter Force-Feel and Stability Augmentation System with Parallel Servo-Actuator

Dear Examiner Collins:

Further to our conversation today regarding the above mentioned patent application, this is to inform you that we would like to proceed with the allowed claims, but would also be grateful if you could consider the following new claim.

24. (New) An automatic stability augmentation system suitable for installation in an existing light weight helicopter comprising:
- a flight control device including hardware and software configured to accept stability augmentation system (SAS) inputs and to provide a command output to command the helicopter control surface in response to the SAS inputs;
 - a servo-actuator responsive to the output of the flight control device and configured to be connected to a cockpit-flight-controller such that when the flight control device is in operation the movement of the cockpit-flight-controller is controlled mainly by the servo-actuator, said servo-actuator including a clutch which permits some movement of the cockpit-flight-controller responsive to operation by a pilot of the helicopter;

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a position sensor configured to sense movement of the cockpit-flight-controller when the pilot moves the cockpit-flight-controller while the flight control is in operation, said sensor configured to input a feedback signal from the cockpit-flight-controller to the flight control device, said feedback signal identifying the position of the cockpit-flight-controller;

wherein the flight control device accepts this feedback signal and provides a command output to command the helicopter control surface in response to the feedback signal.

Sincerely



Azadeh Agahi

cc: Art Rose

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